

NEW OR NOTEWORTHY SPECIES OF *ALSTROEMERIA*
(ALSTROEMERIACEAE)

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The main purpose of this brief account on *Alstroemeria*, is to advance the Latin diagnosis of a number of new species. Most of them were included in a partial revisional work, illustrated with colour photographs, that was necessary to retire from an U.S.A. journal, after two years of having submitted it.

Since my treatment of *Alstroemeria* for Flora Patagonica (Ravenna 1969), I began to study in the field and collect the species of this genus, in Brazil, Chile, and Peru. The results are now being published.

ALSTROEMERIA SABULOSA Ravenna, sp. nov.

Planta in loco natali 4-7 cm alta, sub cultura usque 40 cm alta. Folia congesta rosulata lanceolata cinereo-vididia vel subdistantia 12-25 mm longa et 3-4 mm lata. Lamina tepalorum rosea vel albo-rosea in medio vel duis tertiis superioribus purpureo-tincta apiculo lutescente; tepala interiora superiora in duis tertiis superioribus purpureo-punctata saepissime zona lutea notata.

Collections. Cultra in Santiago Chiliae ex plantis in arenosis littoraneis pr. El Tabo prov. Valparaiso collectis; Ravenna 1521, Oct. 1977 (Herb. Ravennae holotype, BM, K, NY, SGO isotypes).

ALSTROEMERIA TIMIDA Ravenna, sp. nov.

Ab *A. recumbente* Herb. et *A. sabulosa* Rav. proxima necnon a prima radiis unifloribus tepalis exterioribus praeter apiculum superne magis rotundatis, ab altera foliis tenuioribus et tepalis gracilioribus pallidioribusque distincta. Folia caulis haud resupinata lineari-lanceolata pallide viridia 3.5-5 cm longa et 2.7-3.5 mm lata. Perigonium praesertim albicans et dilute roseum 23-24 mm longum et 37-39 mm i diametro verticale aut 39-40 mm in diametro horizontale.

Collections. Cultra in Santiago Chiliae ex plantis in decliviis superioribus montis Roble Alto pr. Polpaico collectis; Ravenna 3078, 14 Nov. 1985 (Herb. Ravennae holotype, NY, SGO isotypes).

ALSTROEMERIA YAELAE Ravenna, sp. nov.

Species ab *A. timida* Rav. proxima sed habito multo majore foliis caulium vegetativum haud rosulatis illis caulium floriferum deciduis, inflorescentia latiora usque 11-3radiata floribus majoribus roseo-purpureis recedit. Planta 30-90 cm alta. Folia lineari-lanceolata glaucescentia glabra ad 6 cm longa et 2-4 mm lata. Perigonium 27-40 mm longum et 37-48 mm in diametro verticale aut 34-41 mm in diametro horizontale.

Collections. Prope ripas rivuli in convalle Macul prov. Santiago Chiliae; Ravenna 3081, 8 Dec. 1985 (Herb. Ravennae holotype, BM, NY, SGO et caet. isotypes).

ALSTROEMERIA VENUSTA Ravenna, sp. nov.

Species *A. peleginam* L. simulans sed foliis herbaceis anguste oblanceolatis apice recto (haud carnosulo-deli-quescentibus apice recurvo). Planta subparva usque 22 cm alta; tepala late spatulata alba late sensimque roseo-vittata.

Collections. In arenosis a Laraquete meridionem versus prov. Arauco Chiliae; Ravenna 1025, Nov. 1970 (Herb. Ravennae holotype).

ALSTROEMERIA NIDULARIS Ravenna, sp. nov.

Ab *A. ciliata* Poepp. affinis sed perigonio roseo, tepalis haud recurvatis late obovato-oblanceolatis ad apicem valde rotundatis. Caules vegetativi foliis herbaceis resupinatis late oblanceolatis marginibus ciliatis. Inflorescentia 6-8-radiata radiis unifloribus ad medium bractea unica instructis.

Collections. Ad Cipreses in valle fluminis Maule prov. Talca Chiliae; Ravenna 1103, Nov. 1971 (Herb. Ravennae holotype).

ALSTROEMERIA BILABIATA Ravenna, sp. nov.

Species *A. revoluta* Ruiz et Pav. in herbario interdum simulans sed caulibus vegetativis foliis late oblanceolatis marginibus ciliatis instructis; caulis floriferus foliis flexuosis marginibus glabris, radiis inflorescentiae laxe patentibus 2-3-floribus raro unifloris, floribus bilabiatis et tepalis interiori-superioribus viperatis haud luteo-zonatis.

Collections. Chile, prov. Santiago, Cerro Robles; A. Hoffman s.n., 30 Nov. 1978 (Herb. Ravennae holotype, NY, SGO isotypes). In nemoribus altiplanitie Cantillanae prov. Cachapoal Chiliae; Ravenna 3300, Dec. 1987 (Herb. Ravennae).- Philippi (1896), mistaken this species for *A. revoluta* Ruiz et Pav.

ALSTROEMERIA POLPAICANA Ravenna, sp. nov.

Planta ad anthesin usque 18 cm alta. Folia tarde hyemalia et vernalia suberecta conferta oblanceolata viridipruinoso paulo flexuosa 4-6 cm longa et 6-9 mm lata. Inflorescentia saepe 3-radiata radiis unifloribus in tertio superiore bractea sterili 7 mm longa instructis. Perigonium erecto-patente. Tepala dilute roseo-albicantia basin versus viridescencia tertio superiore sordide viride; exteriora ad 29 mm longa et 8.8 mm lata sursum in facie adaxiale castaneo-striolata, interiori-superiora 30 mm longa et 6.4 mm lata castaneo-striolata, interiori-inferius 29 mm longum et 6.4 mm latum in summo rubellum et pallide viride acutum.

Collections. Culta in Santiago Chiliae ex plantis pr. summum montis Roble Alto collectis; Ravenna 2346, Oct. 1984 (Herb. Ravennae holotype, BM, NY isotypes). Chile, prov. Santiago, Caleu, Cerro Robles; A. Hoffman s.n., 30 Oct. 1978 (Herb. Rav.).

ALSTROEMERIA EPULAUQUENSIS Ravenna, sp. nov.

Planta 17-30 cm alta. Caules erecti foliis resupinatis distantibus lineari-lanceolatis 2-5 cm longis et 1.7-4 mm latis instructis. Inflorescentia 2-3-radiata radiis 1-2-floribus. Perigonium roseo-lilaceum vel roseo-purpureum 30-32 mm latum. Tepala exteriora obovato-unguiculata ad 27 mm longa et 9.5 mm lata superne margines minute denticulatos. Tepala interiora circ. 32 mm longa et 4-5 mm lata, superiora zona media lutea striis rubellis notata.

Collections. Argentina, prov. Neuquen, 5 km de Las Ovejas, camino a las Lagunas Epulauquen, subida a Mallín Verde; Boelcke et al. 10757 (BAB holotype, BAA, SI isotypes). Idem, dept. Minas, Lagunas Epulauquen, extremo oeste; Boelcke et al 10919, 16-I-1964 (BAA, BAB, SI). Idem, Lagunas Epulauquen, antigua aduana; M. Dimitri et al. 7-II-1963 (DPN 4453 at BA). Idem, Parque Nac. Lanin, a 8 km de las lagunas; Dimitri et al. 7-II-1963 (DPN 4313 at BA). Idem; Otto Asplund, 11-VI-1902 (BAB), det. Hicken A. *diazii* Phil. Idem, Arroyo Chenque-Pehuen; P. Navarrete Piñeiro, XII-1903 (BAB 14565), det. Hicken A. *diazii* Phil.

ALSTROEMERIA LACRIMA-SOLIS Ravenna, sp. nov.

Species ab *A. spathulata* Presl et *A. pigmaea* Herb. proxima; a prima floribus majoribus insigniter luteis tepalis interioribus rubro-suffusis, a secunda foliis coriaceis saepe latioribus spathulatisque et tepalis majoribus.

Collections. Argentina, prov. Neuquen, Pampa del Río Sa-

lado; S. Schajovskoy s.n., 10-XII-1966 (Herb. Ravennae holotype, M, SI isotypes). Dept. Chos-Malal, a 9 km de Chos-Malal, camino a Andacollo; Boelcke et al. 10667 (BAA, BAB, SI). De Balsa Huitren a Buta Ranquil; F.A. Roig, Herb. Ruiz-Leal 26738, 19-XI-1969 (MEN). Prov. Rio Negro, Paso Limay-Paso Flores; M.N. Correa 3144 (BAB).

ALSTROEMERIA SPECTABILIS Ravenna, sp. nov.

Planta 40-100 cm alta. Folia resupinata oblanceolata flexuosa patentia tenora in facie abaxiale resupinata nitide viridia, adaxiale glaucescente ad margines minutissime sparseque ciliolata 4.4-11.2 cm longa et 8.5-27 lata acuta. Inflorescentia 6-12-radiata. Flores inodori cernui vel erecto-patentes. Ovarium obovato-truncatum viride 12-costulatum costulis viscoso-tumescentibus liquidum secretantibus 5-8.2 mm longum et 4-7.2 mm latum. Perigonium plus minusve infundibulatum vel apertum pallide lilaceo-violaceum 55-80 mm in diametro verticale et 42-60 mm in diametro horizontale.

Collections. Chile, prov. Aconcagua, mun. Maipú, Quebrada de La Plata; C. Muñoz, X-1936 (SGO 47019 & 47020). Sine loc. (SGO 38095 & 38142). In decliviis meridionem exadversus ad Quebrada de la Plata in praedio Rinconada mun. Maipú prov. Santiago Chiliae; Ravenna 2405, X-1974 (Herb. Ravennae holotype, BM, G, NY, SGO, U isotypes). Prov. Aconcagua, Catemu; Philippi (SGO 38095).

ALSTROEMERIA MAGNA Ravenna, sp. nov.

Species ab ovario 12-costulato affinitate cum *A. spectabilis* Rav. prompte distinguitur, sed statura ad 1.60 m habitu robustiore caule florifero crassiore foliis deliquescentibus in facie abaxiale fusco-viridibus tepalis latioribus rigidulis recedit.

Collections. Inter frutices inter Los Molles et Los Vilos prov. Aconcagua Chiliae; Ravenna 1127, Oct. 1971 (Herb. Ravennae holotype).

ALSTROEMERIA LOCUNDA Ravenna, sp. nov.

Caules vegetativi vernaes elongati 10-30 cm longi foliis late oblanceolatis interdum confertis apice rotundato inferioribus ad 5 cm longis et 7-18 mm latis parce contortis vel rectis cinereo-viridibus. Caulis floriferus foliis lanceolatis vel anguste lanceolatis haud resupinatis undulatis crassiusculis acutis 1.5-6 cm longis et 3-11 mm latis. Perigonium laete roseum 40-50 mm longum et 55-83 mm in diametro verticale et 21-33 in diametro horizontale.

Collections. In decliviis supra Laguna Lo Encañado in Andibus supra Santiago Chiliae; Ravenna 1201, Febr. 1972

(Herb. Ravennae holotype, NY, K, SGO isotypes).

ALSTROEMERIA CANTILLANICA Ravenna, sp. nov.

Species ab *A. inconspicua* Phil. et *A. polpaicana* Rav. affinis sed a prima floribus majoribus ambis serieis tepalorum castaneo-striolatis, a secunda statura majore et perigonio magis aperto. Planta usque 40 cm alta. Folia cinereo-vidua anguste lanceolata flexuosa haud resupinata 5-7 cm longa et 48 mm lata. Perigonium roseum 30-37 mm longum et 37-57 mm in diametro horizontale aut 48-58 mm in diametro verticale.

Collections. Infra marginem altiplanitie Cantillana aut sub umbra Nothofagi prov. Cachapoal Chiliae; Ravenna 3299, Dec. 1987 (Herb. Ravennae holotype, K, NY isotypes).

ALSTROEMERIA POETICA Ravenna, sp. nov.

Ab *A. magnifica* Herb. et *A. violacea* Phil. relata sed ab ambis foliis glabris flaccioribus glaucescentibus (haud laete viridibus vel nitentibus) a secunda etiam perigonio ad lateras leviter compresso tepalo interiori-inferiore basin versus profuse atro-rubro-striato recedit.

Collections. Chile, prov. Coquimbo, dept. Ovalle, Zorri-lla; Jiles 1645, 22-X-1949 (Herb. Rav., CONC). Idem, Hda. Amolanas; Jiles 948, 3-X-1948 (Herb. Rav., CONC). Idem, Talinay, Quebrada de Talca; Jiles 444, 16-XI-1947 (Herb. Rav., CONC). Idem, Fray Jorge; Jiles 5583, 20-XII-1970 (Herb. Rav., CONC). In collibus prope sylvas Fray Jorge dictas prov. Coquimbo Chiliae; Ravenna 1621, Oct. 1971 (Herb. Ravennae holotype, NY, SGO isotypes).

ALSTROEMERIA LONGAVIENSIS Ravenna, sp. nov.

Species ab *A. revoluta* Ruiz et Pav. et *A. timida* Rav. quibus confundere potuit similis sed a prima perigonio roseo (haud pallide violaceo) tepalisque minus recurvatis et a secunda foliis caulis vegetativis haud rosulatis tepalis interioribus distincte roseis distinguo.

Collections. In nemoribus vallis fluminis Longaví ditione La Balsa prov. Linares Chiliae; Ravenna 1630, Nov. 1971 (Herb. Ravennae holotype, NY, SGO isotypes).

ALSTROEMERIA HUEMULLINA Ravenna, sp. nov.

Ab *A. ligta* L. similis sed foliis flaccidioribus et floribus scarlatinis vel aurantiacis differt. Folia ob-lanceolata 6-7.5 cm longa et 10-14.5 mm lata pallide viridia in facie abaxiali resupinata cinerea marginibus glabris.

Collections. Chile, prov. Ñuble, Termas de Chillán; F. W. Pennell 12387 (SGO). Idem, Montes de Chillán; M.A. solís de Obando (SGO 38121). In nemoribus pr. Termas de Chillán; Ravenna 1700, II-1972 (Herb. Ravennae Holotype, SGO isotype).

ALSTROEMERIA MONANTHA Ravenna, sp. nov.

Species ab *A. poetica* Rav. relata sed foliis caulis vegetativi parvis 3-4 cm longis rosulatis inflorescentia uniradiata radio unifloro. Perigonio violaceo-purpureo majusculus tepalis exterioribus late oblanceolatis sursum rotundatis apiculo deltaceo instructis.

Collections. A Puerto Oscuro septentrionem versus prov. Aconcagua Chiliae; Ravenna 3327, Oct. 1985 (Herb. Ravennae holotype, K, NY, SGO isotypes). Also found near Los Vilos, in the same province.

ALSTROEMERIA OXYPHYLLA Ravenna, nom. nov.

Syn.: *Alstroemeria crocea* Philippi (nom. illeg.), An. Univ. Chile 21 (2): 449, 1862; non *A. crocea* Ruiz et Pavón (1802).

Collections. Chile, prov. Maule (?), Tres Cruces (SGO 47067 holotype).

ALSTROEMERIA MUTABILIS Kuntze ex Kunth, Enum. Pl. : 777, 1850. Syn.: *A. araucana* Philippi, An. Univ. Chile 43: 551, 1873.- *A. stenopetala* Philippi, loc. cit. 43: 547, 1873.- *A. volkmannii* Baker, Handb. Irid.: 139, 1888.

This is a well marked species, that had been confused since long time ago for *A. aurantiaca* D. Don, and as such it appears in the literature (Hauman & Vanderweken 1917, Ravenna 1969). Both species have in common the bright yellow to deep orange colour of the perigone. *A. aurantiaca*, however, is a much stouter plant (up to 1.70 m high), with dark-green, larger flaccid leaves, and larger flowers that occasionally reach red tones.

A. mutabilis Kuntze ex Kunth had originally been collected by Pöppig on the Andes near the Antuco Vulcano. The present writer found it in the same area, and verified that the Argentine plants previously known as *A. aurantiaca*, belong here. The specific epithet refers to a variability of colour, supposedly even to pink tones. The latter condition, however, is not really true, and was originated in a confusion of Pöppig, who actually collected a pink species on Cerro Pilque, labelling it with the same data as the yellow-flowered one. The former specimen, which I have on loan from BR, is now referable to *A. chillanensis* Grau & Bayer; the latter, at P, I select as the holotype of *A. mutabilis*. This spec-

ies varies from bright yellow to nearly bronze flowers.

The flowers of *Alstroemeria versicolor* Ruiz & Pav. had been described as yellow with dark streaks. According to Ruiz & Pavón (1802: 59), it was collected "prope Huilquilemu et oppidum et in Laxa campis". Huilquilemo is a railroad station, and also an old estate, both placed near the town of Talca (35° 26' S). Laja is found much to the south (37° 17' S) in the province of Bio-Bio, at a low level above the sea. There is no type-material preserved at Madrid, Paris, or Firenze, but there is ground to presume that this is an earlier name for *A. aurantiaca*.

Distribution and habitat. Frequent in the Argentine Patagonia, at foot of the Andes, ascending to 2000 m, in the provinces of Río Negro and Neuquén; also in Chile, in the provinces of Cautín, Malleco, and Bio-Bio. In the latter country it is only found on the mountains, high valleys, and uplands to the east. It often grows in clearings of *Nothofagus*, or *Araucaria* woods.

Collections. Argentina, prov. Chubut, dept. Cushamen, Cholila; R. Martínez-Crovetto 3020 (S1). Prov. Río Negro, dept. Bariloche, Parque Nac. Nahuel Huapi, Lago Hess-Lago Roca; O. Boelcke & M.N. Correa 6013 (BAA, BAB, S1). Prov. Neuquén, región del Lago Nahuel Huapi; J. Pita (BAB 30640). Chile, prov. Cautín, faldeos del volcán Villarica, entre el refugio y Pucón; M. Rojas, 10-II-1948 (SGO 69463 & 69477). Chil. australis alpinis graminosis Andes de Antuco; Poeppig 756, lect Decbr. P lectotype).

ALSTROEMERIA MAGNIFICA Herbert, Edwards's Bot. Req. 29: Misc. p. 64, 1843. Syn.: *A. gayana Philippi*, Linnaea 29: 71, 1858. - *A. sierrae* Muñoz, Fl. Silv. Chile: 66, 1966.

This is the earlier name for a plant often found somewhat to the north from the town of La Serena, prov. Coquimbo, and to the south as far as to the mouth of the Limarí river. It is one of the large-flowered species, if not the largest of the whole genus. Its leaves are stiff, with the edges ciliate, rather aqueous ("deliquescent"), and breakable, the abaxial, resupinate face being bright green.

Collections. Chile, prov. Coquimbo, carretera Panamericana, km 490 al N de La Serena; E. Sierra & C. Muñoz, 13-IX-1963 (SGO 75665 type of *A. sierrae* Muñoz & SGO 75666). Idem, in umbrosis Serena; Gay 426, 1836 (SGO 46965 type of *A. gayana* Phil.). Idem ibid; Kausel 5494, 12-X-1971 (SGO 80526). In umbrosis inter rupes ad fodinam El Romeral pr. Serenam; Ravenna 1598, Aug. 1971 (Herb. Ravennae neotype).

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NEW OR NOTEWORTHY TECOPHILAEACEAE

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Prior to the preparation of a treatment of the Chilean Tecophilaeaceae, it seems advisable to advance brief descriptions of new species in *Conanthera*, some new combinations, and to review the status of *Tecophilaea* Bert. ex Colla in relation to *Zephyra* D. Don.

CONANTHERA SABULLOSA Ravenna, sp. nov.

Planta elata praealta. Cormus stoloniferus. Folia convoluta sursum sensim attenuata. Inflorescentia successive bifurcata ramis gracilibus 5-12 instructa. Flores axillares a pedicellis 3-4 mm longis sustentati. Perigonium azureo-violaceum 20-23 mm longum et 14-18 mm latum. Tepala in poculo circ. 5 mm longo connata; exteriora extus ad margines albicantia maculis violaceis, apiculo 0.2 mm longo; interiora medio inferiore azureo violacea deinde alba maculis duis latiusculis et alteribus paucis minutis notata. Filamenta complanata albiuscula 0.6 mm longa. Antherae hastato-lanceolatae contiguae fusco sordideque viridescentes praeter apicem albicantem. Ovarium late ellipticum vel ovatum 3.9 mm longum. Stylus albicans vel dilute violaceum; stigma punctatus.

Collections. In decliviis arenosis 6 km a La Serena septentrionem versus prov. Coquimbo Chiliae; Ravenna 3058 Oct. 1985 (Herb. Ravennae holotype, BM, K, NY, SCO isotypes).

CONANTHERA URCEOLATA Ravenna, sp. nov.

Planta laxe inclinata. Cormus depresso-globosus circ. 2 cm latus ad basin subplana radice paucis emitens. Folia basalia saepe dua convoluta sursum sensim attenuata 12-15 cm longa et 2-3 mm lata. Caulis floriferus efoliato inclinato-patens. Inflorescentia ad basin tantum brevi-